

SETTING UP A SAFETY CONFIGURATION: SAFETY CIRCUIT WITH EDM FEEDBACK

For information on the initial electrical connections that are required for this configuration, see the **Basic Setup** instructions at www.sensing.net/asi-solutions

Example 7 – Safety circuit with EDM feedback

This is a modification of example 1. Safe output OSSD1 is used to drive the solenoid of a motor starter. The feedback contact on the motor starter is monitored. Depressing any one of the e-stops will turn OFF safe output OSSD1. Once all e-stops are in their released state, the reset can be activated and the safe output OSSD1 will turn ON. EDM is based on the following conditions:

1. When the output on the motor starter is closed, the feedback contact must open within a defined amount of time
2. When the output on the motor starter is opened, the feedback contact must be closed within a defined amount of time
3. The safety controller goes into the Error Lock state if the feedback contact does not operate as described in steps 1 and 2. The safety controller must now be reset using the SET button.

Three dry contact e-stops

- E-stop 1 connected to S11/S12 and S21/S22
- E-stop 2 connected to S31/S32 and S41/S42
- E-stop 3 connected to S51/S52 and S61/S62

One reset acting on all e-stops

- Reset is activated by applying +24VDC to S72

EDM feedback contact

- Feedback is provided through input terminal S81

